



Cat. No. 12-1621

## OWNER'S MANUAL

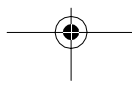
Please read before using this equipment.

# CR-320

**Big-Display AM/FM Clock Radio  
with Dual Alarms**



**OPTIMUS®**





## FEATURES

Your Optimus CR-320 Big-Display AM/FM Clock Radio is convenient, easy to use, and has many special features.

**Dual Alarm** — lets you set the alarm to sound, or the radio to turn on, at a time you set.

**0.9-Inch Green Numbers** — make the clock easy to read.

**Extra Loud Alarm** — loud enough to wake even the soundest sleeper (96 dB).

**Quick Set** — lets you set the time of day and alarm time with just two buttons.



**Battery Back-Up with Battery Sentinel**® — keeps the clock running and the alarm set if power is interrupted, and lets you know when the battery needs to be replaced.

**Sleep Feature** — plays the radio for up to 59 minutes, then automatically turns it off.

**Snooze Feature** — temporarily silences the alarm or radio for about 7 minutes so you can get a few extra minutes of sleep.

**Note:** Your clock radio needs a 9V battery (not supplied) for back-up power.

**Warning:** To prevent fire or shock hazard, do not expose this product to rain or moisture.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		



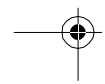
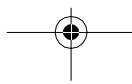
This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

The graphical symbols with supplemental markings are located on the bottom of the radio.

**Caution:** To prevent electric shock, one blade on the AC power cord's plug is wider than the other and the plug only fits one way. If you cannot easily insert the plug, turn it over and try again. Do not force it.





## PREPARATION

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### CONNECTING TO AC POWER

Plug the clock radio's power cord into a standard AC outlet. The display flashes and the BATTERY SENTINEL indicator light next to the time display turns on (see "Installing a Back-Up Battery").

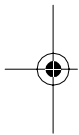
*illustration of cord being plugged in*

1. Press the tab and lift off the battery compartment cover on the bottom of the clock radio.

*illus of battery compartment cover removal*

2. Snap the clock radio's battery contacts onto the battery's terminals, then insert the battery into the compartment. The BATTERY SENTINEL indicator turns off.

*illustration of battery installation*



### INSTALLING A BACK-UP BATTERY



Your clock radio uses a 9V battery (not supplied) to operate the clock and alarm during a power failure. The display turns off, but the clock keeps the time for at least 8 hours, and the alarm will sound (if set) for at least 10 minutes after power fails. For the best performance, we recommend an alkaline battery, such as RadioShack Cat. No. 23-553.

**Caution:** Use only a fresh battery of the required size and recommended type.

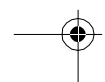
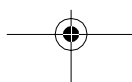
**Note:** To prevent unnecessary drain on the battery, install it only after connecting the clock radio to AC power.

**Note:** If the BATTERY SENTINEL indicator remains lit, press **SNOOZE** to reset the indicator. If that does not work, replace the back-up battery.

3. Replace the cover.

The BATTERY SENTINEL indicator lights if the back-up battery is not installed or needs to be replaced.

**Warning:** Always dispose of old batteries promptly and properly. Do not bury or burn them.





# OPERATION

## SETTING THE CLOCK

Setting the clock is simple. While holding down **TIME SET**, repeatedly press (or hold down) **SLOW FORWARD** or **SLOW REVERSE**. The time on the display advances or reverses by 1 minute each time you press the button. (The PM indicator lights for PM hours.)

*illus of REVERSE and FORWARD locations*

To rapidly set the time, hold down **FAST FORWARD** or **FAST REVERSE**.

## ADJUSTING THE DISPLAY BRIGHTNESS

To change the brightness of the display, set **DIMMER LOW/HIGH** on the side of the clock radio to **LOW** or **HIGH**.

*illustration of DIMMER LOW/HIGH location*

## PLAYING THE RADIO

1. Set **ON/OFF/AUTO/ALARM** to **ON**.

*illustration of ON/OFF/AUTO/ALARM set to ON*

2. Set **AM/FM** to the desired band.

*illustration of AM/FM location*

### Notes:

- The clock radio has a built-in AM antenna. For the best AM reception, rotate the radio.
  - The clock radio's power cord acts as the FM antenna. For the best FM reception, fully extend the power cord.
3. Rotate **TUNING** to the desired station.

*illustration of TUNING location*

4. Rotate **VOLUME** to the desired sound level.

*illustration of VOLUME location*

5. To turn off the radio, set **ON/OFF/AUTO/ALARM** to **OFF**.

## USING THE ALARM

### Setting the Alarm Time

You can set the clock radio so an alarm sounds or the radio plays at one or two different times (ALARM 1 and ALARM 2).

Follow these steps to set the alarm times.

1. Set **ON/OFF/AUTO/ALARM** to **AUTO** or **ALARM**.
2. Set **ALARM 1+2** to **ALARM 1**. The ALARM 1 indicator lights on the upper left of the clock display.

*illustration of ALARM 1+2 location*

3. While holding down **ALARM SET**, repeatedly press **SLOW FORWARD** or **SLOW REVERSE** to advance or reverse the alarm time. Or, to rapidly advance or reverse the alarm time, hold down **ALARM SET** and press **FAST FORWARD** or **FAST REVERSE**.

*illustration of ALARM SET, REVERSE and FORWARD locations*

4. Set **ALARM 1+2** to **ALARM 2** and repeat Step 3 to set the second alarm time. The **ALARM 2** indicator lights on the lower left of the clock display.
5. Set **ON/OFF/AUTO/ALARM** to **ALARM** to have the buzzer sound at the set time(s), or to **AUTO** to have the radio turn on at the set time(s). The alarm indicator lights on the lower left of the clock display.
6. Rotate **VOLUME** for the desired alarm or radio volume.
7. Set **ALARM 1+2** to **1**, **1+2**, or **2** to have the alarm sound at either or both set times. The indicators for the selected alarm(s) light.

To silence the buzzer or radio when it sounds, set **ON/OFF/ALARM** to **OFF**. If you do not turn off the alarm or radio, it continues to sound for 59 minutes.



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Remember to set **ON/OFF/AUTO/ALARM** to **ALARM** or **AUTO** if you want it to go off at the set wake-up time the next day.

To display the set wake-up time, set **ALARM 1+2** to 1 or 2, then press **ALARM SET**.

## USING SNOOZE

To silence the alarm, but have it sound again in a few minutes, press **SNOOZE**. This silences the alarm for about 7 minutes. You can use this feature as many times as you want.

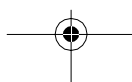
To see the time (minutes and seconds) since you first pressed **SNOOZE**, hold down **SNOOZE**.

## USING THE SLEEP TIMER

Press **SLEEP** to set the sleep timer so the radio plays for 59 minutes and then automatically turns off.

To set a sleep time of less than 59 minutes, hold down **SLEEP** and repeatedly press (or hold down) **SLOW FORWARD** or **SLOW REVERSE** until the display shows the desired minutes. (Or, hold down **FAST FORWARD** or **FAST REVERSE** to rapidly change the minute setting.)

To turn off the radio before the set sleep time has elapsed, set **ON/OFF/AUTO/ALARM** to **ON**, then to **OFF, AUTO, or ALARM**.





## CARE AND MAINTENANCE

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To enjoy your clock radio for a long time:

- Keep the clock radio dry. If it gets wet, wipe it dry immediately.
- Use and store the clock radio only in normal temperature environments.
- Handle the clock radio gently and carefully. Don't drop it.
- Keep the clock radio away from dust and dirt.
- Wipe the clock radio with a damp cloth occasionally to keep it looking new.

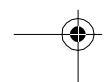
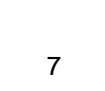
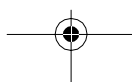
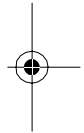
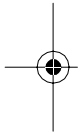
Modifying or tampering with the clock radio's internal components can cause a malfunction and invalidate its warranty. If your clock radio is not performing as it should, take it to your local RadioShack store for assistance.

## THE FCC WANTS YOU TO KNOW

Your clock radio might cause TV or radio interference even when it is operating properly. To determine whether your clock radio is causing the interference, turn off your clock radio. If the interference goes away, your clock radio is causing the interference. Try to eliminate the interference by:

- moving your clock radio away from the TV or another radio
- connecting your clock radio to an outlet that is on a different electrical circuit from the TV or another radio
- contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using the clock radio.



# SPECIFICATIONS

Bands ..... AM: 530–1710 kHz  
 FM: 88–108 MHz

Power Output ..... 320 mW (maximum)

Speaker ..... 3 Inch (7.6 cm) Ferrite, Dynamic-Type, 8 Ohm

Alarm ..... 96 dB

Power Requirements ..... 120V AC, 60 Hz, 6 W

Back-up Battery ..... 9V DC

Dimensions (HWD) .....  $2\frac{3}{5} \times 9\frac{3}{5} \times 6\frac{1}{8}$  Inches (65 × 240 × 155 mm)

Weight ..... 1 lb 12 oz (790 g)

Specifications are typical; individual units might vary. Specifications and designs are subject to change and improvement without notice.

### Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

*We Service What We Sell*

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**A Division of Tandy Corporation**  
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